



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/building

Lite Tech, LLC
610 Hermits Trail
Altamonte Springs, FL 32701

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "TWS" Total Wall System

APPROVAL DOCUMENT: Drawing titled "Total Wall System", sheets 1 through 11 of 11, prepared by Lite Tech, LLC, dated October 05, 2011, signed and sealed by Khanh Quoc Le, P.E., on October 18, 2011, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each wall shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
11/03/2011

NOA No. 10-0913.08
Expiration Date: 11/03/2016
Approval Date: 11/03/2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing titled "Total Wall System ", sheets 1 through 11 of 11, prepared by Lite Tech, LLC, dated October 05, 2011, signed and sealed by Khanh Quoc Le, P.E., on October 18, 2011.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on Total Wall System, prepared by National Certified Testing Laboratories, Report No. NCTL-210-3667-1, dated April 05, 2010, signed and sealed by Gerard J. Ferrara, P.E.*

C. CALCULATIONS

1. *Calculations, dated February 20, 2010, 1 page, prepared by Hurricane Engineering, signed and sealed by Thomas J. Anderson, P.E.*

D. QUALITY ASSURANCE


1. *By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).*

E. MATERIAL CERTIFICATIONS

1. *Total Wall System (TWS) Bill of Materials, by Lite Tech, LLC.*
2. *Total Wall System (TWS) GreenCrete Bill of Materials, by Lite Tech, LLC.*
3. *Total Wall System (TWS) StarterBlock Bill of Materials, by Lite Tech, LLC.*

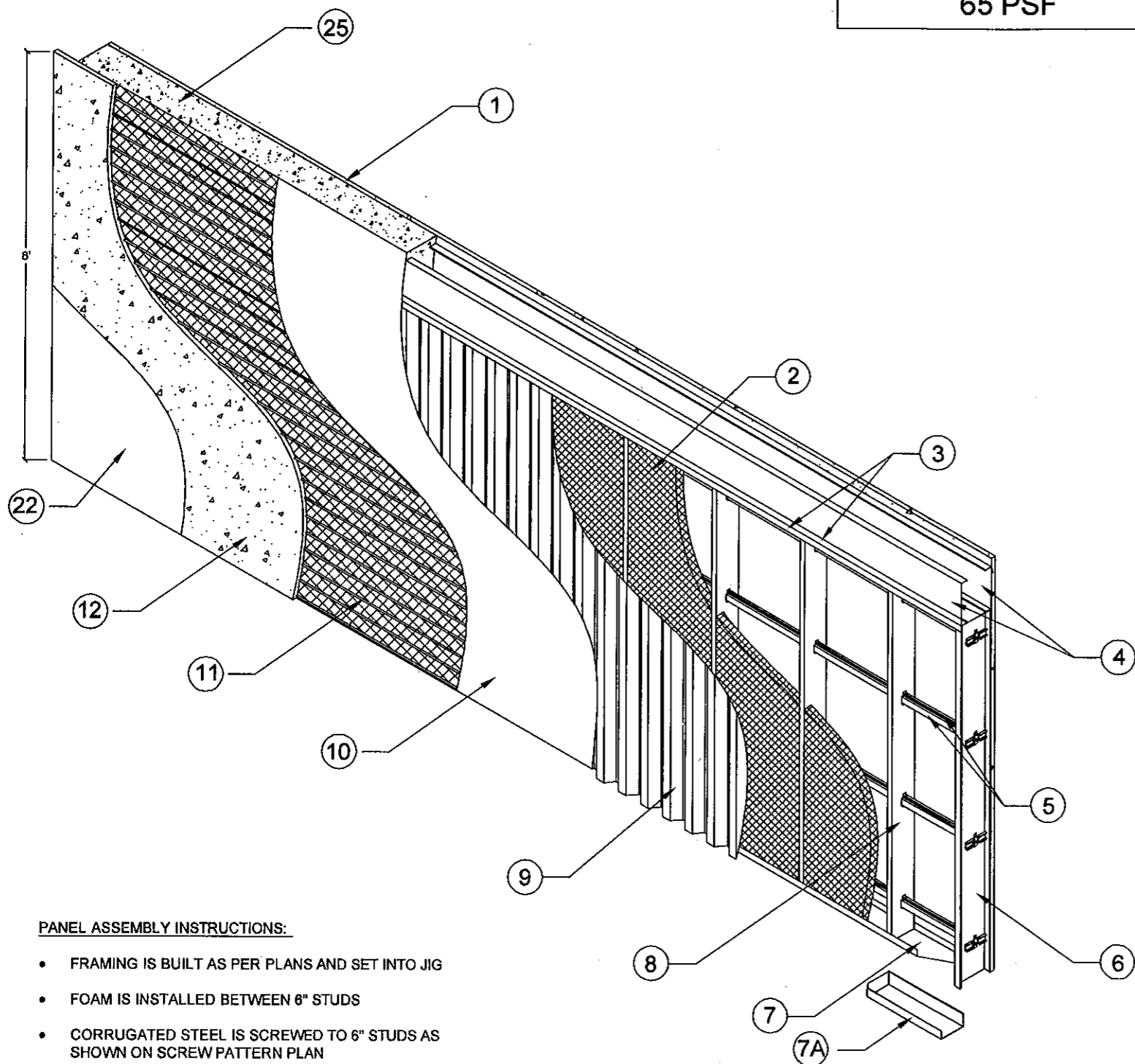
F. STATEMENTS

1. *Letter from Hurricane Engineering, dated September 02, 2011, signed and sealed by Khanh Le, P.E., stating that this product is in compliance with the Florida Building Code, 2007 Edition.*



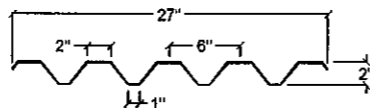
Helmy A. Makar, P.E., M.S.
PERA, Product Control Unit Supervisor
NOA No. 10-0913.08
Expiration Date: 11/03/2016
Approval Date: 11/03/2011

Design Pressure Rating:
65 PSF



PANEL ASSEMBLY INSTRUCTIONS:

- FRAMING IS BUILT AS PER PLANS AND SET INTO JIG
- FOAM IS INSTALLED BETWEEN 8" STUDS
- CORRUGATED STEEL IS SCREWED TO 6" STUDS AS SHOWN ON SCREW PATTERN PLAN
- VAPOR BARRIER IS PLACED OVER CORRUGATED STEEL
- RIB LATH IS SCREWED THROUGH VAPOR BARRIER TO CORRUGATED STEEL AS SHOWN ON SCREW PATTERN PLAN
- GREENCRETE™ IS POURED OVER RIB LATH AND SCREED OFF.
- ONCE GREENCRETE™ HAS SET PANEL IS PLACED ON TRUCK FOR DELIVERY



⑨ 26 GA. GALVANIZED CORRUGATED STEEL DETAIL

BILL OF MATERIALS
PER 160 SF OF WALLSPACE

#	COMPANY	PRODUCT	DESCRIPTION	QUANTITY
1	VARIOUS	INTERIOR WALL BOARD		160 SF
2	DOW	EXTRUDED POLYSTYRENE FOAM BOARD	2" THICK, 25 PSI ASTM D 1621	133 SF
3	STEELCON	16 GA. 8" METAL TRACK	#800T150-54 33 KSI GALVANIZED TRACK	38 LF
4	STEELCON	16 GA. 10" METAL STUD	#1000S162-54 33 KSI GALVANIZED STUD	38 LF
5	STEELCON	COLD ROLLED CHANNEL (CRC)	16 GA. STRUCTURAL GALVANIZED STEEL	152 LF
6	STEELCON	16 GA. 8" METAL STUD	#800S137-54 33 KSI GALVANIZED STUD	14 LF
7	STEELCON	16 GA. 8" METAL TRACK OR OPTIONAL BRACKET (7A)	#600T150-54 33 KSI GALVANIZED TRACK	19 LF
8	STEELCON	20 GA. 6" METAL STUD	#600S137-33 33 KSI GALVANIZED STUD	84 LF
9	LITE TECH	26 GA. CORRUGATED STEEL	26 GA. CORRUGATED STEEL	10 SHEETS
10	PACTIV	GREEN GUARD CLASSIC WRAP	8 MIL THICKNESS 51/38 PSI TENSILE STRENGTH	160 SF
11	STEELCON	3/8" GALVANIZED RIB LATH	ASTM C 1063	160 SF
12	LITE TECH	GREENCRETE™	1" THICK (U.S. PAT. APP: 12166494)	160 SF
13	FASTENAL	A307 GALVANIZED BOLT	1/4" - 20 x 1"	12
14	FASTENAL	GALVANIZED NUT	1/4" - 20	12
15	FASTENAL	GALVANIZED FLAT WASHER	1/4"	12
16	FASTENAL	SD SHEET METAL SCREW	#10 x 3/4"	108
17	FASTENAL	HEX WASHER HEAD SD SCREW	1/4" - 14 x 3"	25
18	FASTENAL	K-LATH DRYWALL SCREW	#8 x 3/4"	182
19	TAPCON	PHILLIPS HEAD CONCRETE SCREW	1/4" x 2-1/2"	14
20	AKZONOBEL	LIQUID NAILS	HEAVY DUTY CONSTRUCTION ADHESIVE	20 OZ.
21	LITE TECH	Z-FLASHING	G90 16 GA. STEEL 38-53 K.S.I.	20 LF
22	VARIOUS	EXTERIOR FINISHING AND PAINT	STUCCO AND PAINT	160 SF
23	LITE TECH	STARTER BLOCK	POROUS CONCRETE BLOCK (U.S. PAT. APP: 12166494)	
24	FASTENAL	SD SHEET METAL SCREW	#10 X 1"	51
25	VARIOUS	CONCRETE	3,000 PSI	VARIOUS
26	STEELCON	16 GA. 6" METAL STUD	#600S162-54 33 KSI GALVANIZED STUD	

Approved as complying with the
Florida Building Code
Date 11/03/2011
NOA#10-0913-08
Miami Dade Product Control
By *Heather H. Miller*

PROJECT: Miami-Dade Approval

DATE: 10/5/2011

DRAWING NUMBER: 1 of 11

DRAWN BY: KDC

SCALE: N.T.S.

PREPARED BY: Lite Tech LLC
610 Hermits Tr
Altamonte Springs, FL
32701
321-231-6917

TITLE: TOTAL WALL SYSTEM (TWS)

APPROVED: *Heather H. Miller*
PROFESSIONAL ENGINEER
FLORIDA
No 76935

FRAMING PLAN

DESIGN PRESSURE RATING:
65 PSF

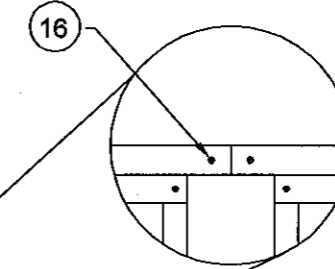
DETAIL: D

8" TIE BEAM TRACK IS SCREWED TO 10" TIE BEAM STUDS AT EACH END AND 2' O.C. USING #10 3/4" PANHEAD SCREW (BOM #16).
8" TIE BEAM TRACK IS SCREWED THROUGH 8" TOP PLATE TO TOP FLANGE OF 6" STUDS USING #10 3/4" PANHEAD SCREW (BOM #16).

DETAIL: C

8" TIE BEAM TRACK IS SCREWED TO 10" TIE BEAM STUDS AT EACH END AND 2' O.C. USING #10 3/4" PANHEAD SCREW (BOM #16).
6" TOP PLATE TRACK IS SCREWED TO 8" AND 6" STUDS USING (2) #10 3/4" PANHEAD SCREWS (BOM #16).

DETAIL: E



MAIN COLUMN C

TOP OF WALL
TOP OF GREENCRETE
(REFERENCE)

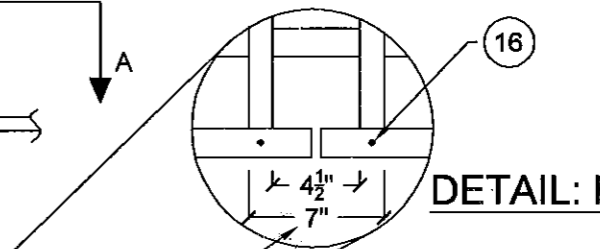
INTERMEDIATE
DOWNCELL C

16 GA. CRC RUNS THROUGH INTERMEDIATE DOWNCELL. FASTEN TO 8" STUDS ON EITHER END OF PANEL, WITH (2) (BOM #24) PANHEAD SCREWS PER DETAIL A.

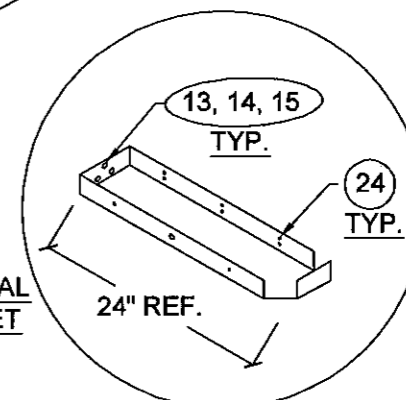
DETAIL: B

6" BOTTOM TRACK IS SCREWED TO 8" AND 6" STUDS AT FACTORY, THEN 6" BOTTOM TRACK OR OPTIONAL BRACKET IS BOLTED THROUGH STUDS AND TO Z-FLASHING IN FIELD USING BOLT, WASHER, AND NUT ON SITE (BOM #13,14,15).

DETAIL: F



7A:
OPTIONAL
BRACKET



SECTION: AA

Approved as complying with the
Florida Building Code
Date 11/03/2011
NOA# 10-0913-08
Miami Dade Product Control

By *Helmy A. Maher*

REFERENCE:

(X) = SEE BILL OF MATERIALS
SHEET 1 OF 11

NOTES:

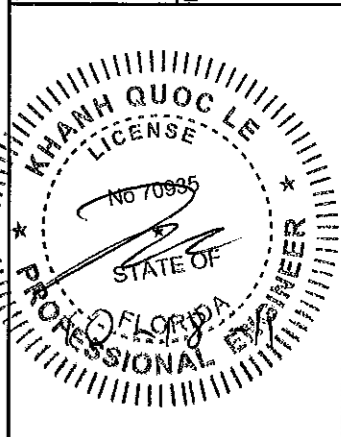
1. FRAME SHOWN SHALL BE MIRRORED ON OPPOSITE SIDE OF INTERMEDIATE DOWNCELL TO ILLUSTRATE A FULL LENGTH WALL PANEL. THE WALL PANEL TESTED REPRESENTED THE WALL BETWEEN A COLUMN AND AN INTERMEDIATE DOWNCELL

2. BOM #7 MAY BE REPLACED WITH OPTIONAL BRACKET (7A) BETWEEN STUDS

3. SEE SHEET 10 OF 11 FOR SECTION

PROJECT:	Miami-Dade Approval
REV.	DATE
DESCRIPTION	BY

DRAWING NUMBER:	DATE:	DRAWN BY:
10/5/2011	10/5/2011	KDC
SHEET:	2 of 11	
SCALE:	N.T.S.	
PREPARED BY:	Life Tech LLC 610 Hermits Tr Altamonte Springs, FL 32701 321-231-6917	



TOTAL WALL SYSTEM
(TWS)

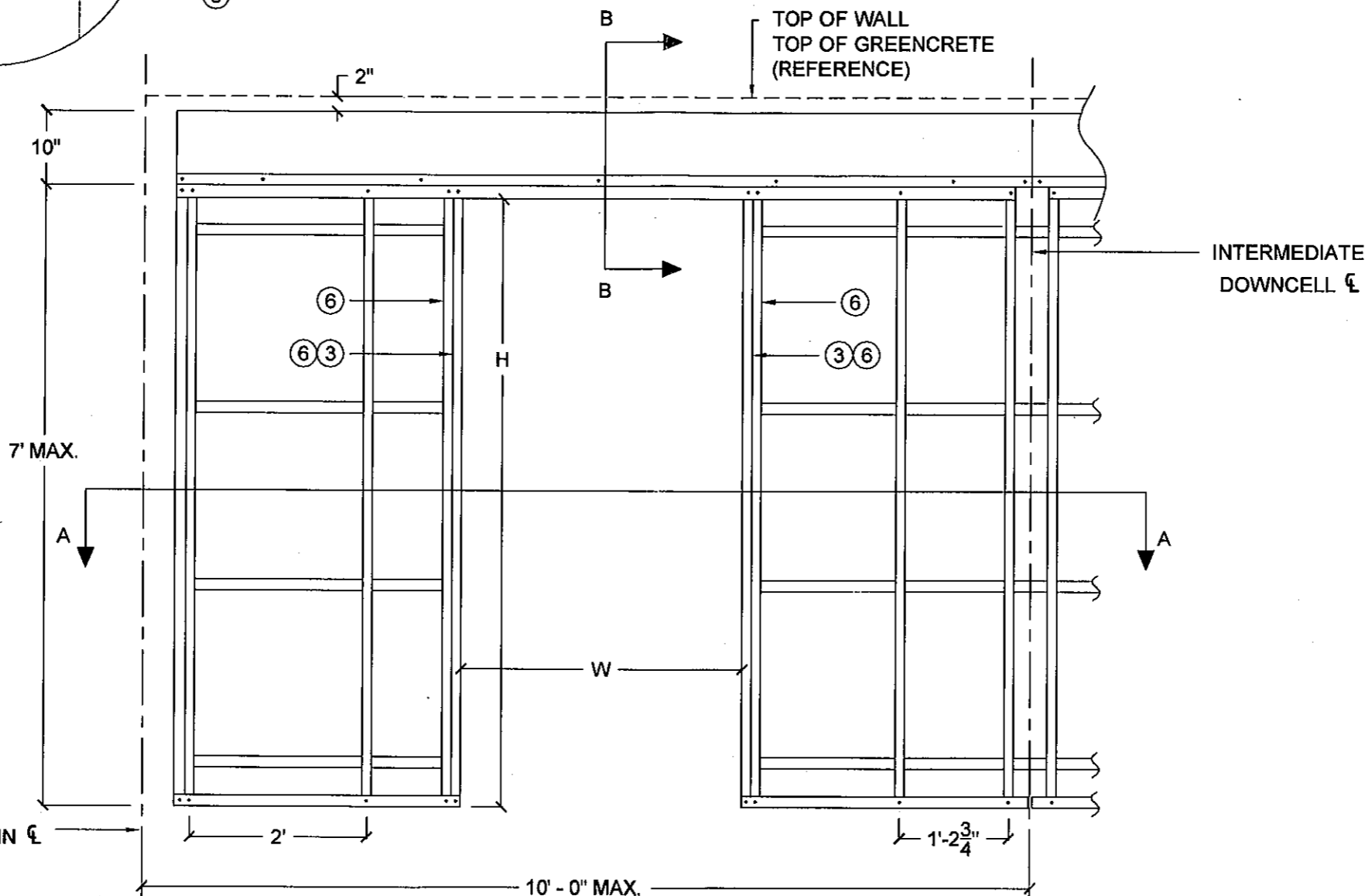
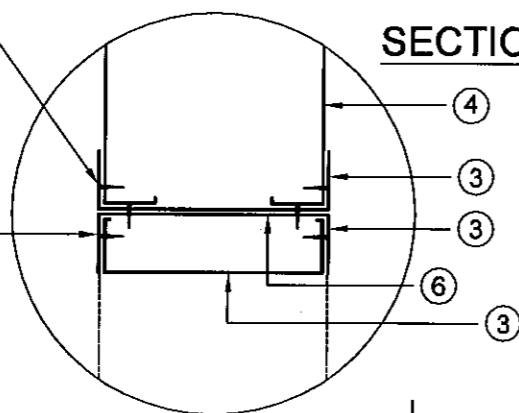
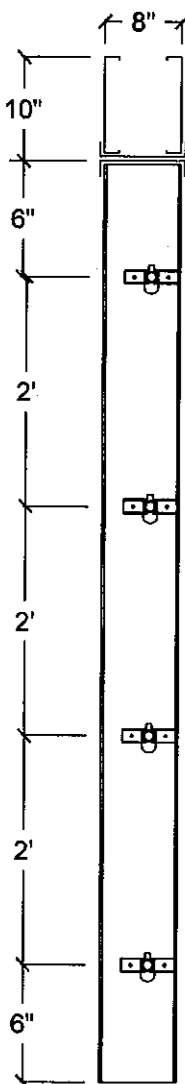
8" TIE BEAM TRACK IS SCREWED TO 10" TIE BEAM STUDS AT EACH END AND 2' O.C. USING #10 X 3/4" PANHEAD SCREWS (BOM #16).

8" HEADER STUD IS SCREWED TO 8" TRACK FLANGE USING #10 X 3/4" PANHEAD SCREWS (BOM #16).

SECTION: BB

FRAMING PLAN W/ TYP. DOOR OPENING

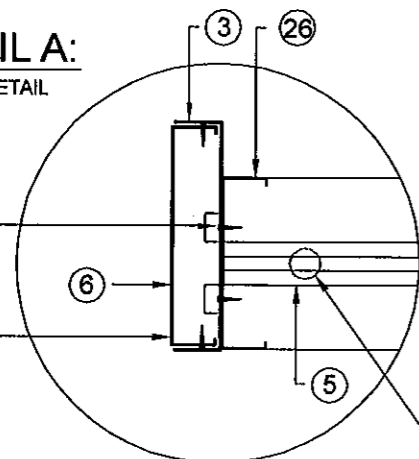
DESIGN PRESSURE RATING:
65 PSF



DETAIL A: JAMB DETAIL

EACH CRC IS SCREWED THROUGH (2) 8" STUDS USING #10 X 1" PANHEAD SCREW (BOM #24).

8" STUD IS SCREWED TO 8" TRACK FLANGE USING #10 X 3/4" PANHEAD SCREWS (BOM #16).



1" DIA. HOLE IN BOTTOM TRACK (BOM #7) FOR 1/2" ANCHOR BOLT WITH 2" WASHER.

SECTION: AA

SEE DETAIL: A

Approved as complying with the
Florida Building Code
Date 11/03/2011
NOA# 10-0913.08
Miami Dade Product Control
By *[Signature]*

REFERENCE:

(X) = SEE BILL OF MATERIALS
SHEET 1 OF 11

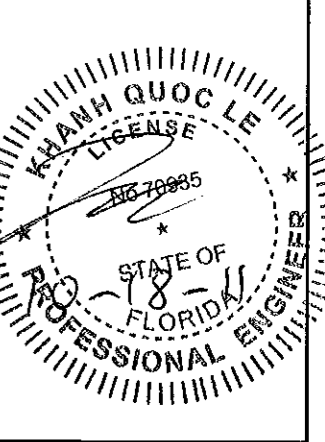
PROJECT: Miami-Dade Approval	DATE	10/5/2011	BY	
	DESCRIPTION		DATE	
	REV.		DESCRIPTION	
TITLE: TOTAL WALL SYSTEM (TWS)	DRAWING NUMBER:	3 of 11	DRAWN BY:	KDC
	REV.		SHEET:	
	SCALE:	N.T.S.		
	PREPARED BY:	Life Tech LLC 610 Hermitas Tr Altamonte Springs, FL 32701 321-231-6917		
PROFESSIONAL ENGINEER Khanh Quoc Le No 70935 STATE OF FLORIDA	REFERENCE: (X) = SEE BILL OF MATERIALS SHEET 1 OF 11			

FRAMING PLAN
W/ TYP. WINDOW OPENING

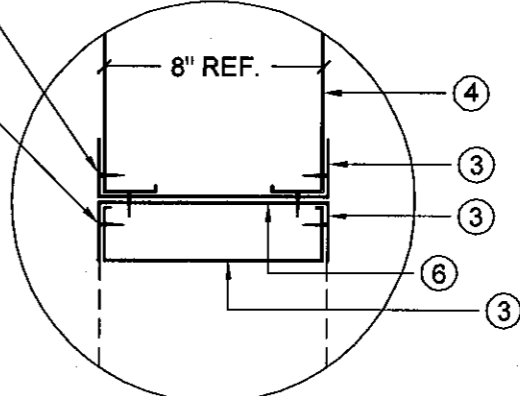
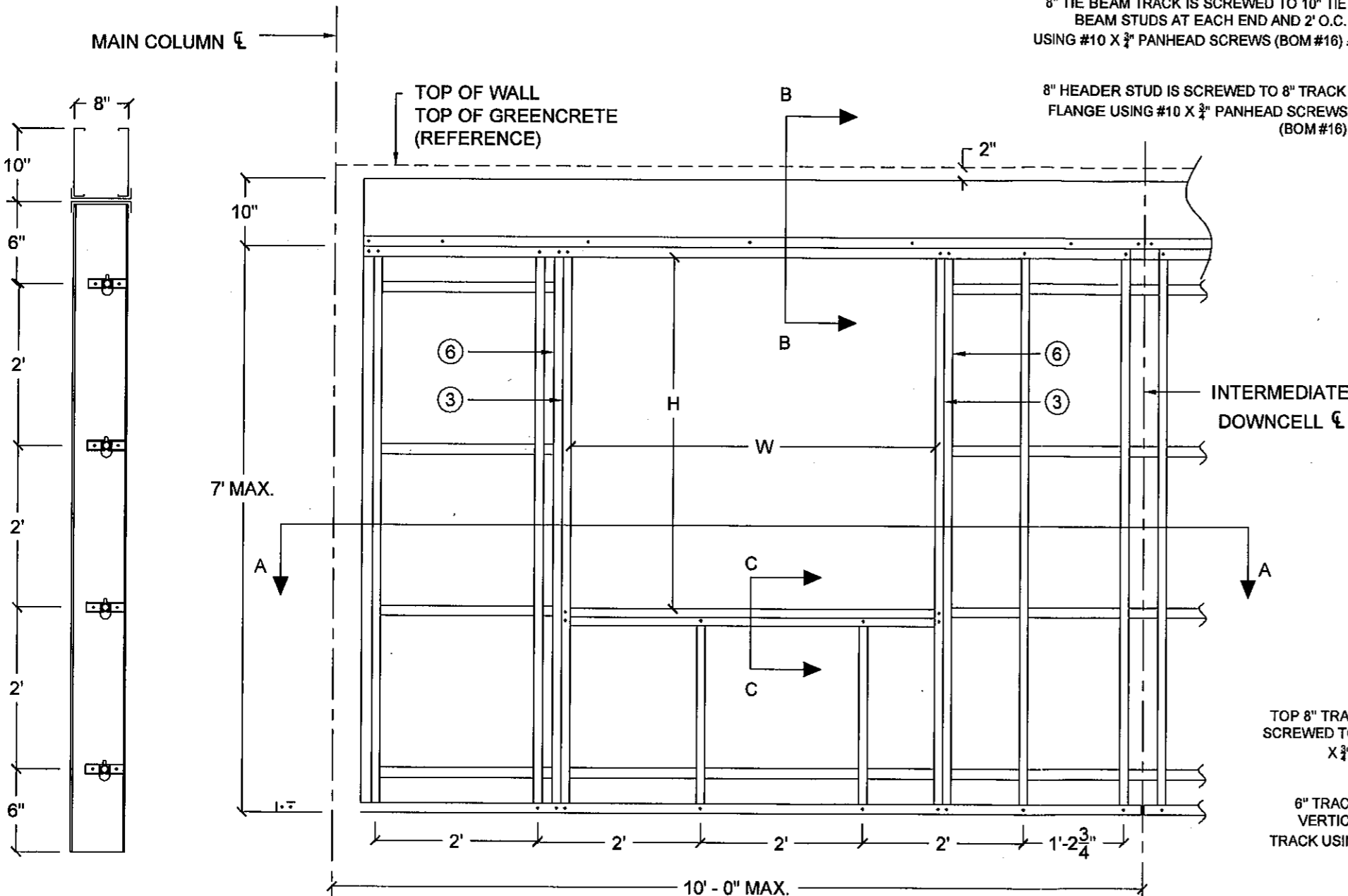
DESIGN PRESSURE RATING:
65 PSF

REV.	DESCRIPTION	DATE	BY

PROJECT: Miami-Dade Approval	DATE: 10/5/2011	DRAWN BY: KDC
DRAWING NUMBER:	SHEET: 4 of 11	SCALE: N.T.S.
PREPARED BY: Lite Tech LLC 610 Hermits Tr. Altamonte Springs, FL 32701 321-231-6917	REV:	



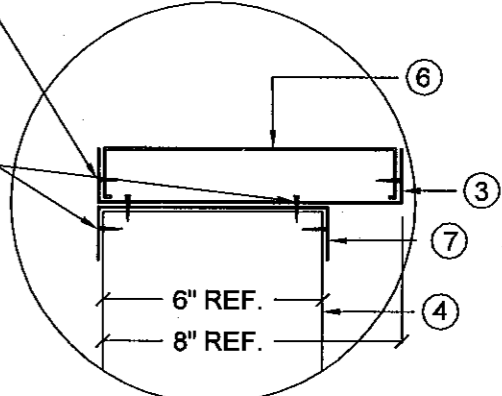
TOTAL WALL SYSTEM
(TWS)



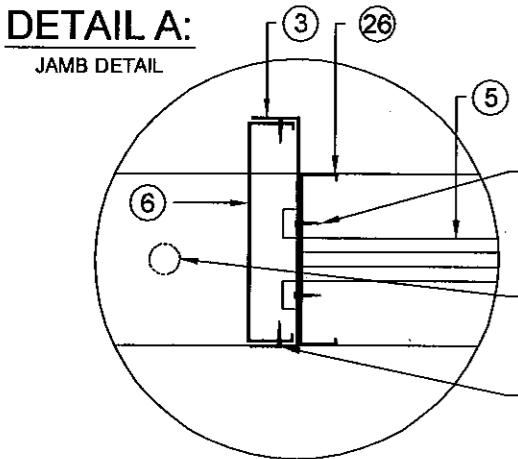
SECTION: BB

TOP 8" TRACK AND 8" STUD ARE
SCREWED TOGETHER USING #10
X 3/4" SCREWS (BOM #16).

6" TRACK IS SCREWED TO 6"
VERTICAL STUDS AND TO 8"
TRACK USING #10 X 3/4" PANHEAD
SCREWS (BOM #16)



SECTION: CC



EACH CRC IS SCREWED THROUGH
(2) 8" STUDS USING #10 X 1"
PANHEAD SCREW (BOM #24).

1" DIA. HOLE IN BOTTOM TRACK (BOM
#7) FOR 3/4" ANCHOR BOLT WITH 2"
WASHER.

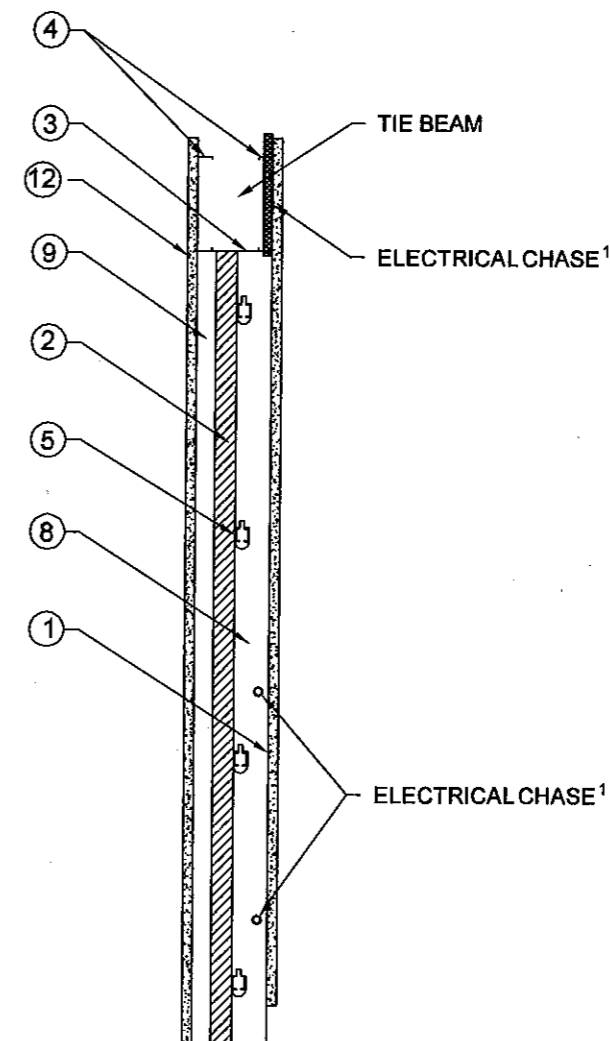
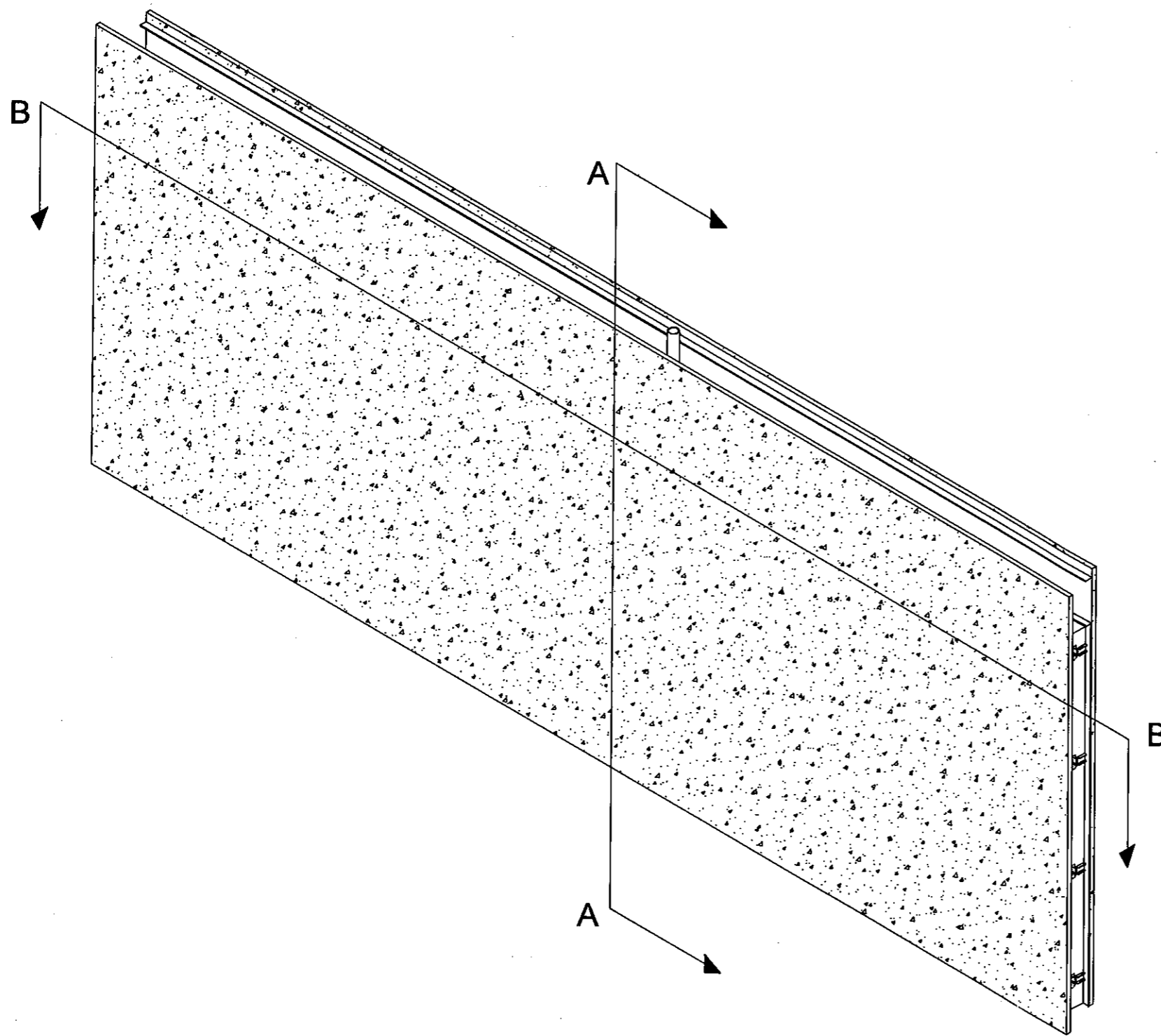
8" STUD IS SCREWED TO 8" TRACK
FLANGE USING #10 X 3/4" PANHEAD
SCREW (BOM #16).

SECTION: AA

SEE DETAIL: A

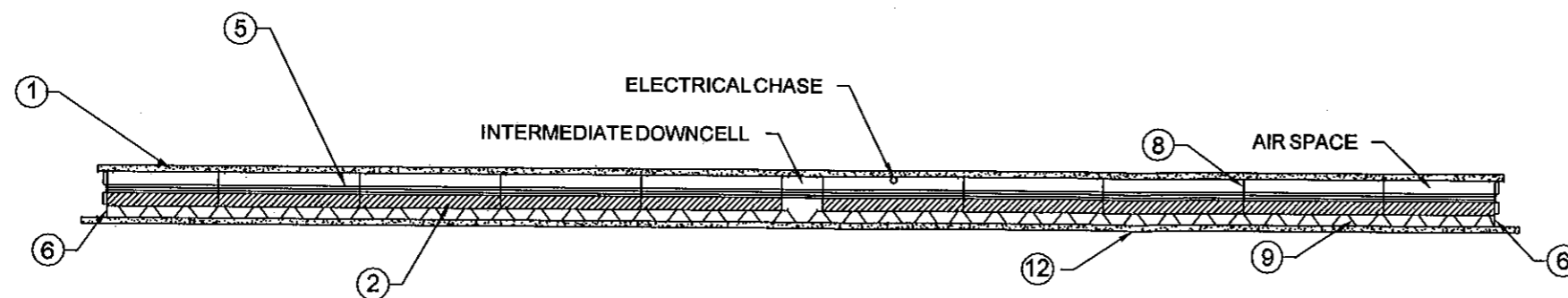
Approved as complying with the
Florida Building Code
Date 11/03/2011
NOA# 10-0913.08
Miami Dade Product Control
By *Helmut A. Weber*

REFERENCE:
(X) = SEE BILL OF MATERIALS
SHEET 1 OF 11



WALL DETAIL: AA

1 - ELECTRICAL CHASE PLACEMENT AS PER PLANS



WALL DETAIL: BB

WALL LENGTH VARIES AS PER ENGINEER

Approved as complying with the
Florida Building Code
Date 11/03/2011
NOA# 10-0913.08
Miami Dade Product Control
By *Heung A. Huh*

REFERENCE:

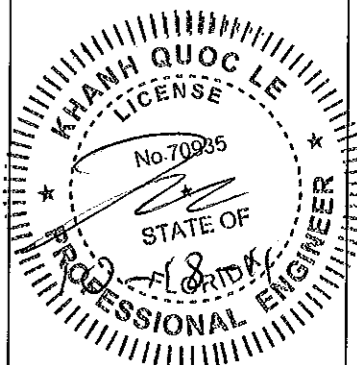
(X) = SEE BILL OF MATERIALS
SHEET 1 OF 11

TITLE:

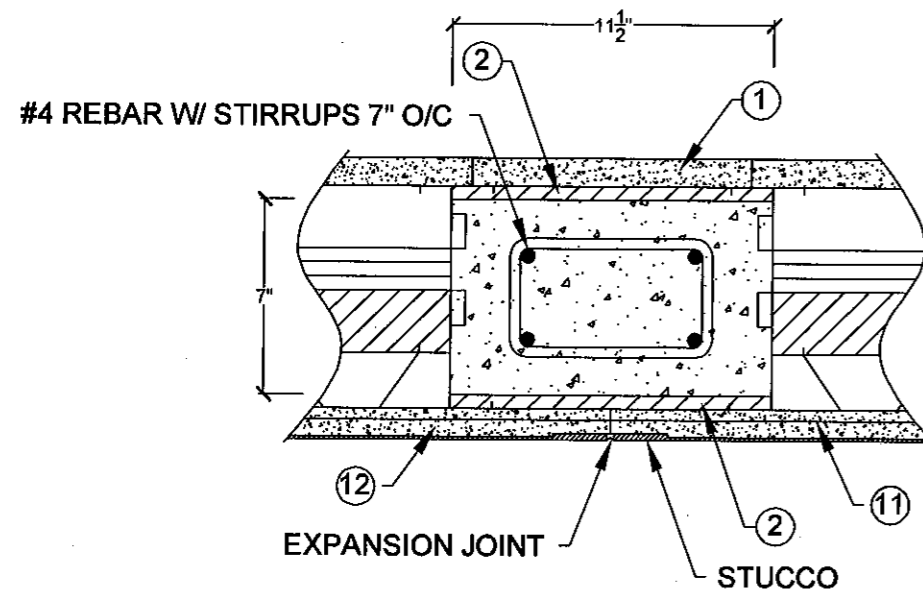
TOTAL WALL SYSTEM (TWS)

REV.	DESCRIPTION	DATE	BY

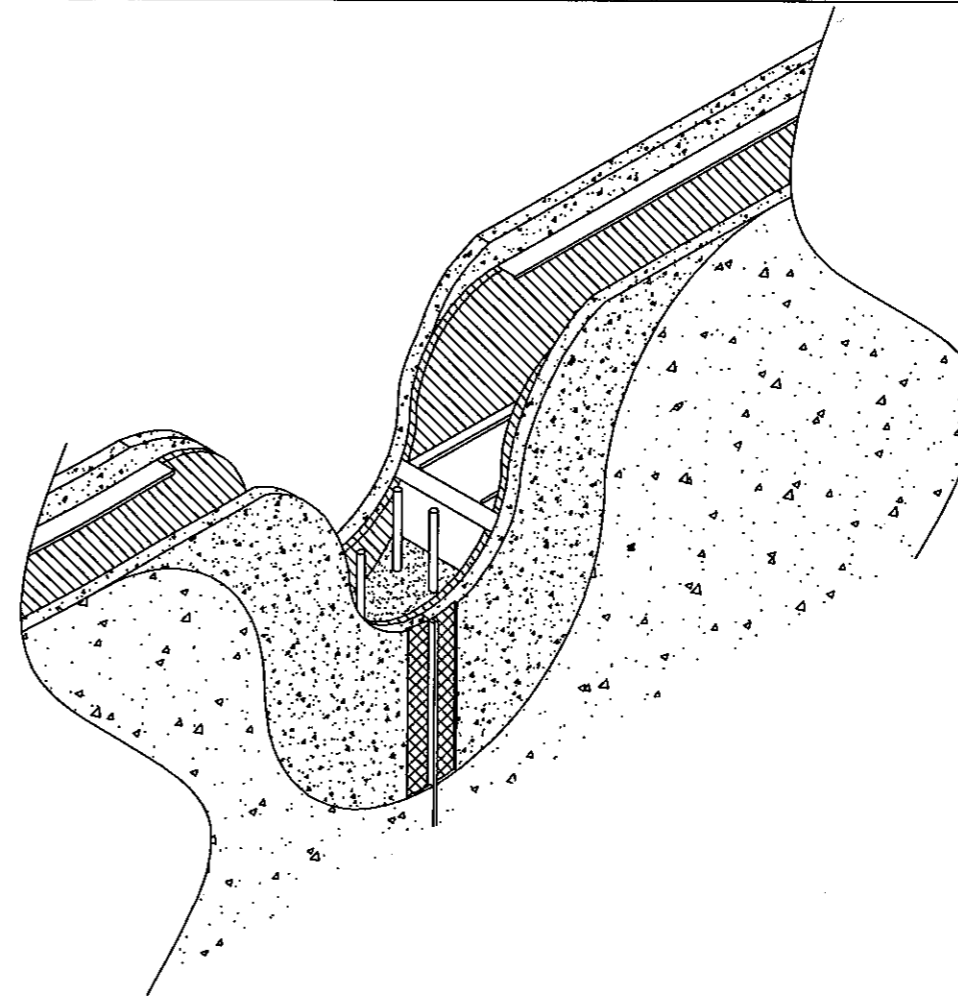
PROJECT: Miami-Dade Approval	DRAWING NUMBER: 10/5/2011	DATE: 10/5/2011	DRAWN BY: KDC
PREPARED BY: Life Tech LLC 610 Hermits Tr Altamonte Springs, FL 32701 321-231-6917	REV: N.T.S.	SHEET: 5 of 11	SCALE: N.T.S.



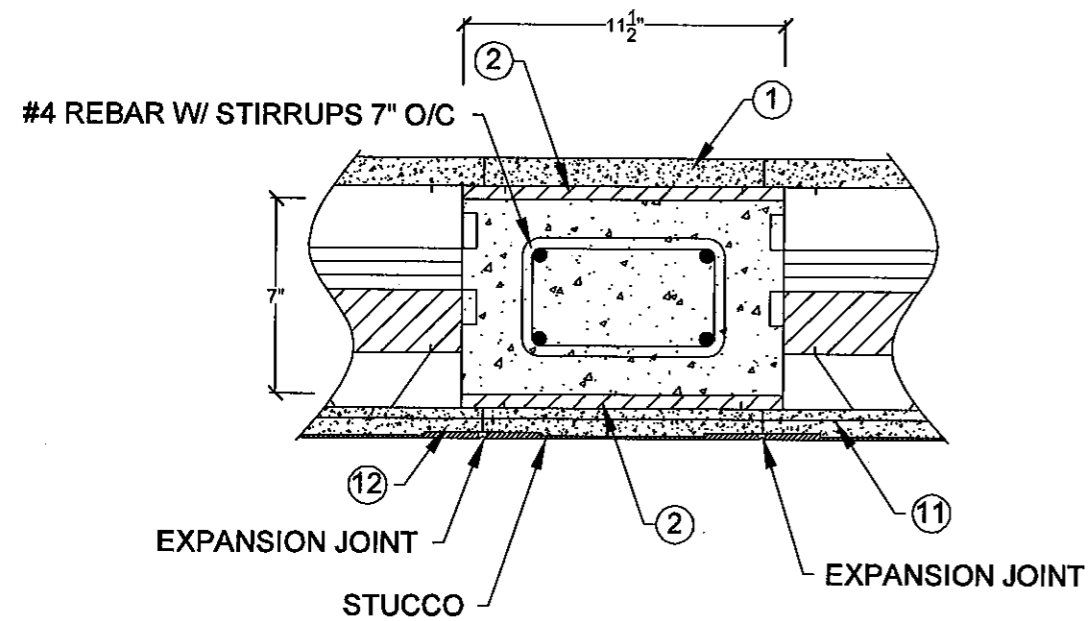
ONE EXPANSION JOINT



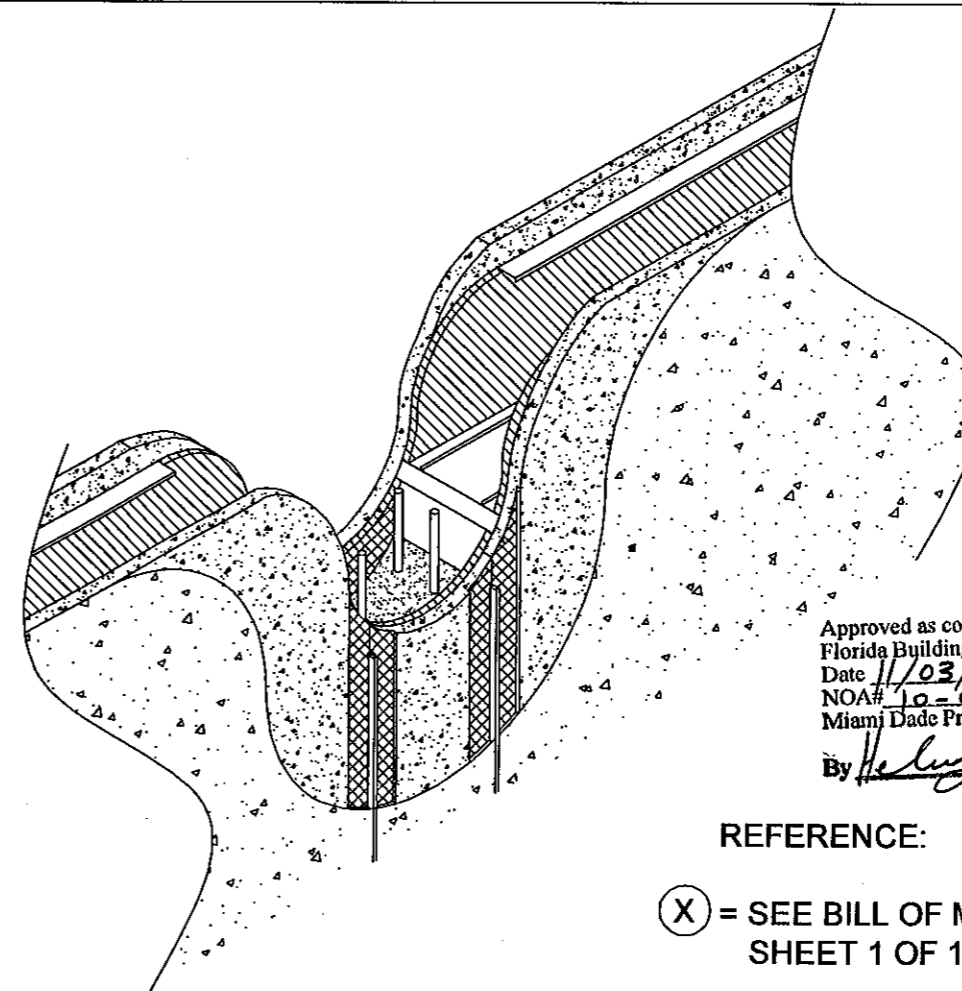
NOTE:
MAX. COLUMN SPACING: 20' O/C



TWO EXPANSION JOINT



NOTE:
MAX. COLUMN SPACING: 20' O/C



Approved as complying with the
Florida Building Code
Date 11/03/2011
NOA# 10-0913.08
Miami Dade Product Control
By Heather A. Miller

REFERENCE:

(X) = SEE BILL OF MATERIALS
SHEET 1 OF 11

TITLE:

SUBJECT:
Miami-Dade Approval

TOTAL WALL SYSTEM
(TWS)

Life Tech LLC
610 Hermits Tr
Altamonte Springs, FL
32701
321-231-6917

DATE: 10/5/2011

DRAWN BY:
KDC

DRAWINGNUMBER:

SHEET:
6 of 11

REV: _____

SCALE: N.T.S.

SCALE: N.T.S.

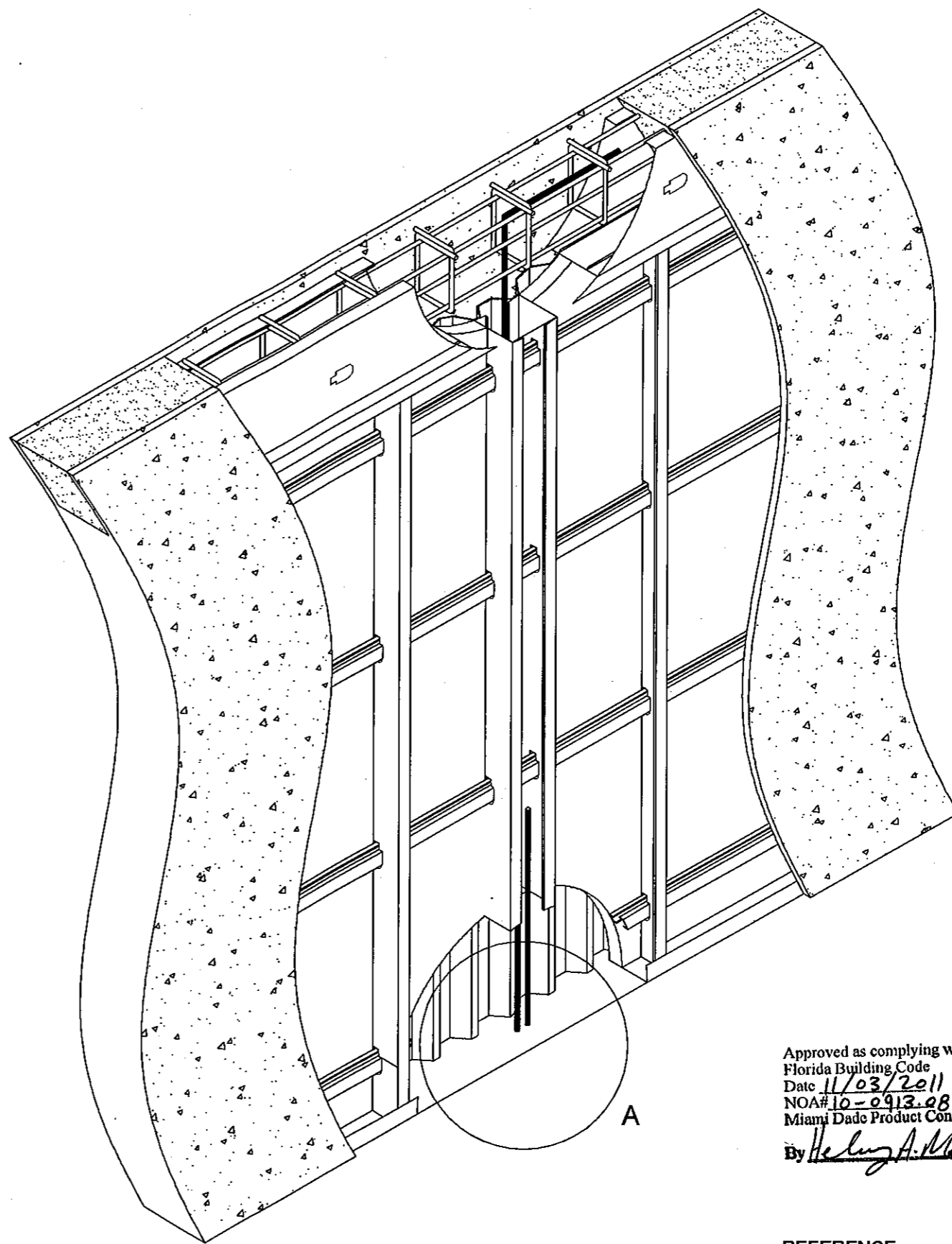
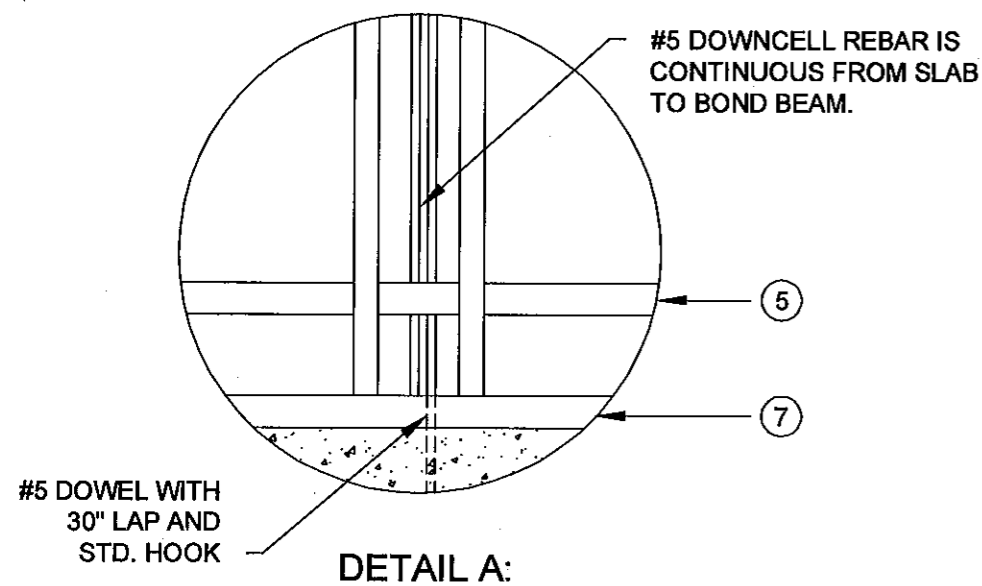
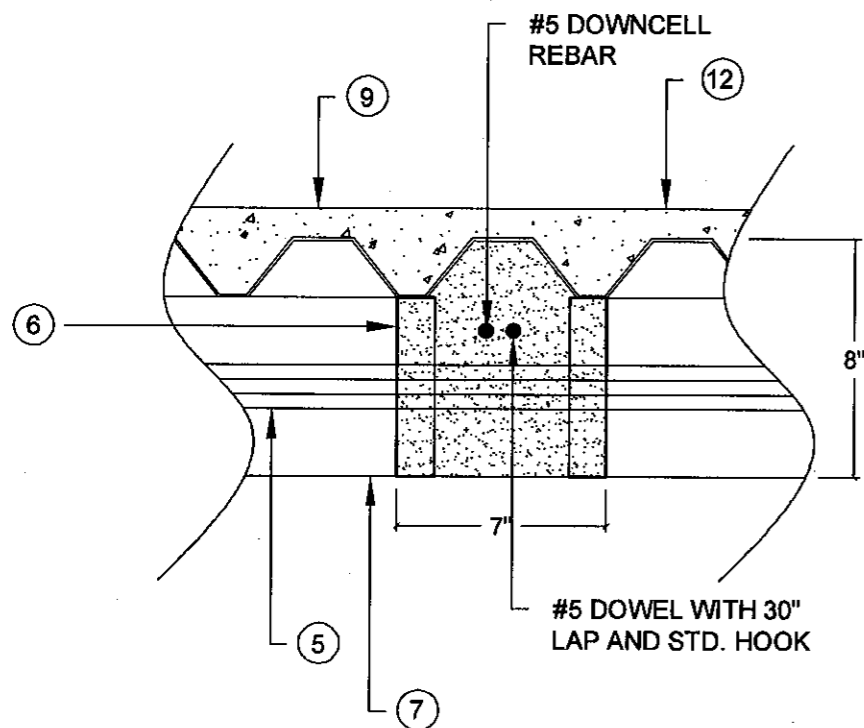
REV:

SCAL

PREPARED BY:

MECHANICAL ENGINEER
STATE OF FLORIDA
NO. 81214

INTERMEDIATE DOWNCELL DETAIL



Approved as complying with the
Florida Building Code
Date 11/03/2011
NOA# 10-0913.08
Miami Dade Product Control
By Heung A. Ma

REFERENCE:
(X) = SEE BILL OF MATERIALS
SHEET 1 OF 11

TITLE:
**TOTAL WALL SYSTEM
(TWS)**

PREPARED BY:
Life Tech LLC
610 Hermits Tr
Altamonte Springs, FL
32701
321-231-6917

DATE:
10/5/2011

DRAWING NUMBER:
7 of 11

SCALE:
N.T.S.

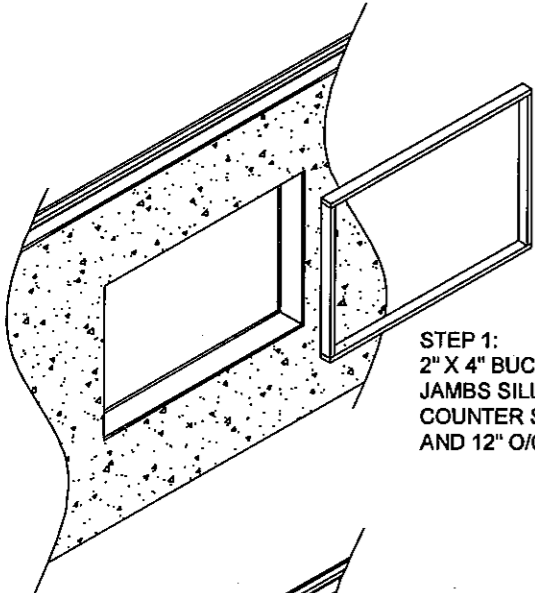
DRAWN BY:
KDC

PROJECT:
Miami-Dade Approval

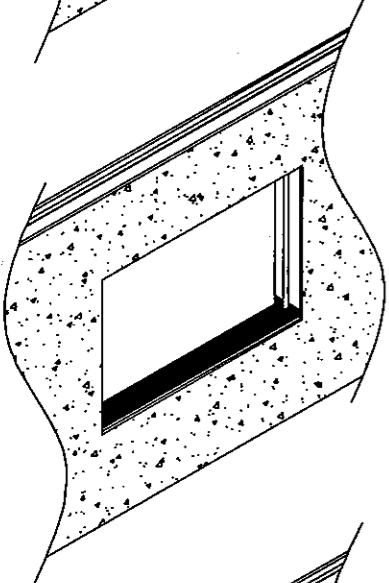
REV.	DESCRIPTION	DATE	BY

KHANH QUOC LE
LICENSE
No. 70935
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

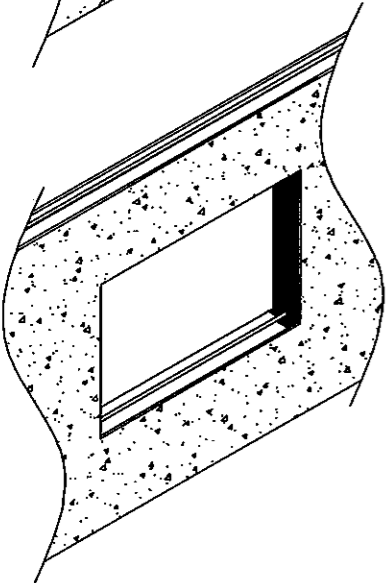
ROUGH OPENING PREPARATION



STEP 1:
2" X 4" BUCK STRIPS ARE FASTENED TO JAMBS SILL AND HEADER WITH #12 X 2" COUNTER SUNK SMS 6" FROM CORNERS AND 12" O/C.



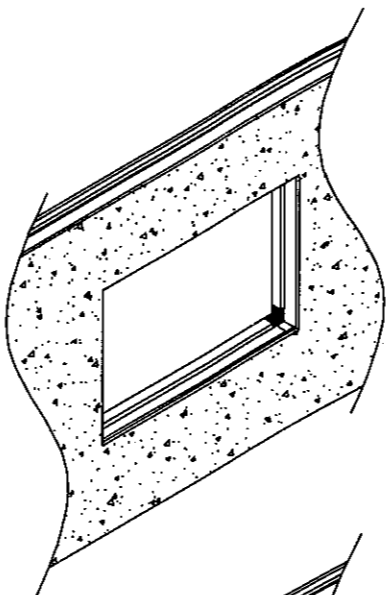
STEP 2:
FLASHING TAPE IS APPLIED OVER BOTTOM BUCK STRIP WITH 2 1/2" MIN. LAP UP JAMBS



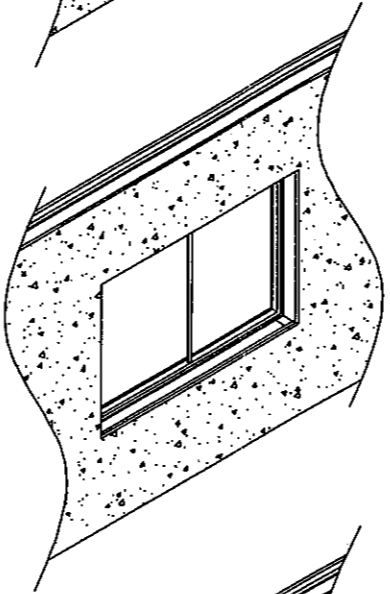
STEP 3:
FLASHING TAPE IS APPLIED TO VERTICAL JAMBS WITH 2 1/2" MIN. LAP

STEP 4:
FLASHING TAPE IS APPLIED TO HEADER WITH 2 1/2" MIN. LAP OVER JAMB FLASHING

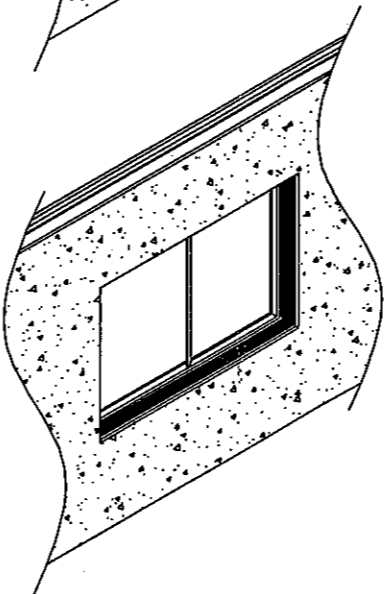
STEP 5:
4" X 4" FLASHING TAPE SPLICE IS APPLIED TO EACH CORNER



STEP 6:
WINDOW UNIT IS INSTALLED



STEP 7:
REPEAT FLASHING TAPE PROCESS OVER WINDOW FLANGES.



OPENING IS READY FOR SILL INSTALLATION

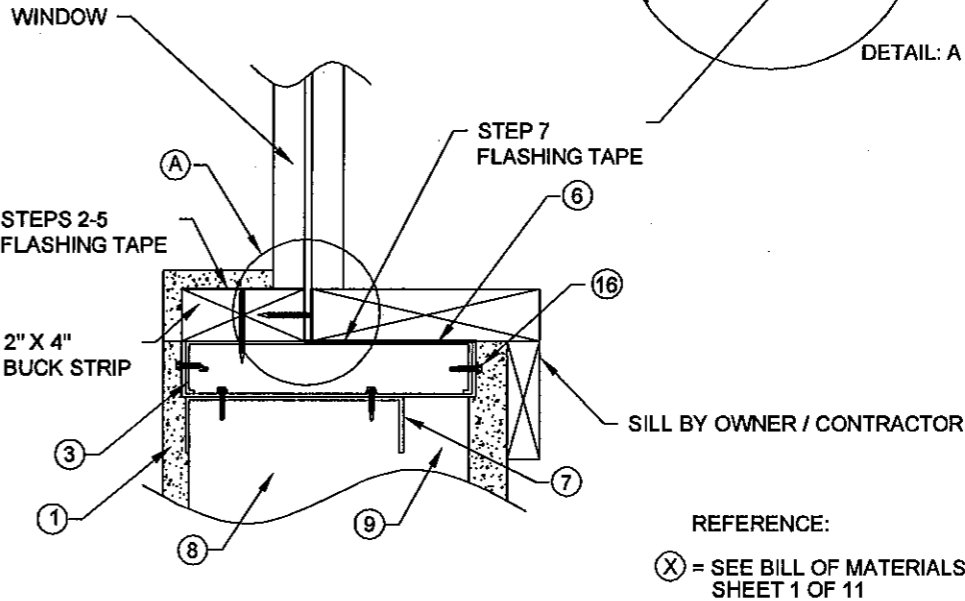
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SILL LAYOUT (HEADER IS SIMILAR)

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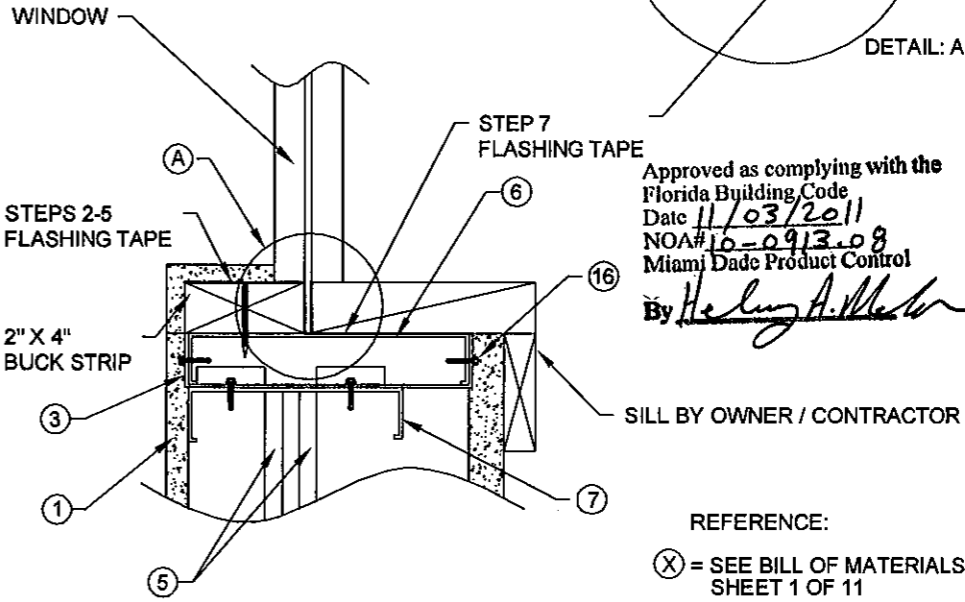
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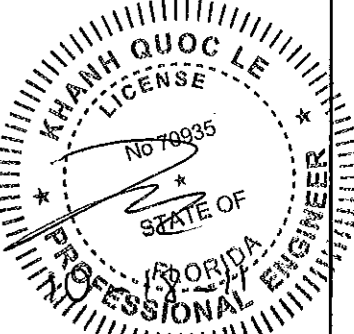
JAMB LAYOUT

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Approved as complying with the Florida Building Code
Date 11/03/2011
NOA# 16-0913-08
Miami Dade Product Control
By *Heidi A. Miller*



PROJECT: Miami Dade Approval

TITLE: TOTAL WALL SYSTEM (TWS)

DATE: 10/5/2011

DRAWING NUMBER: 8 of 11

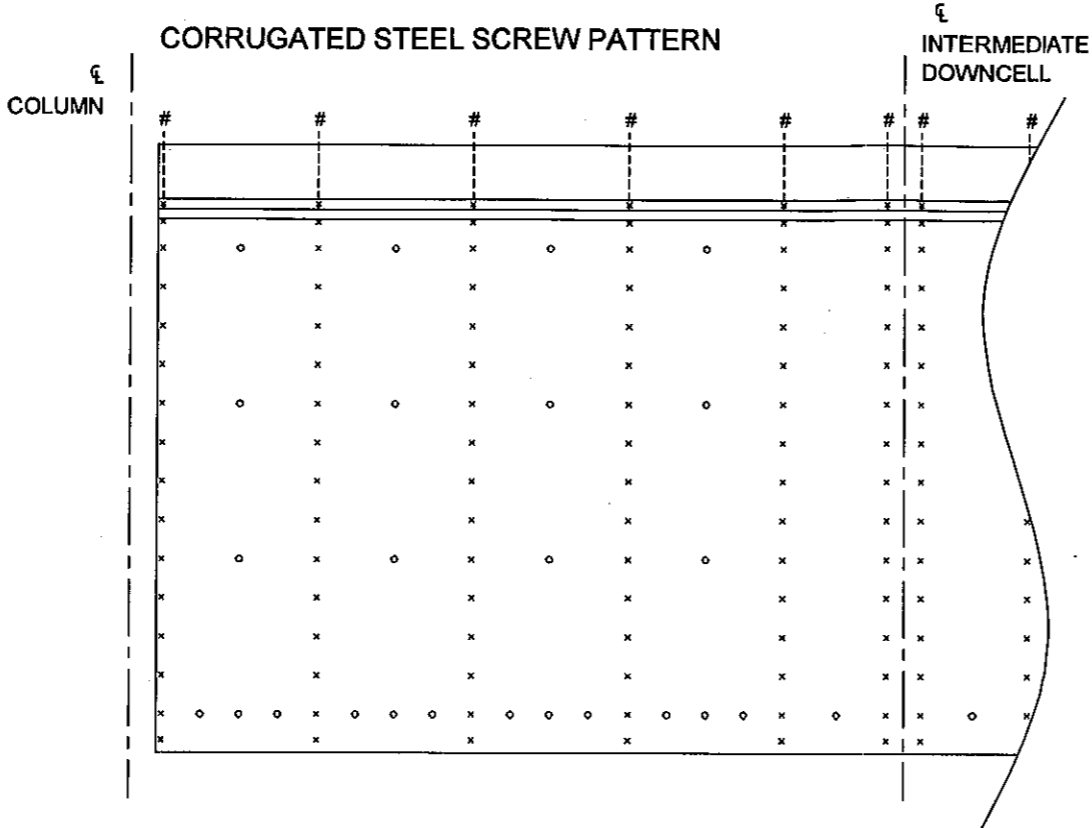
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SCALE: N.T.S.

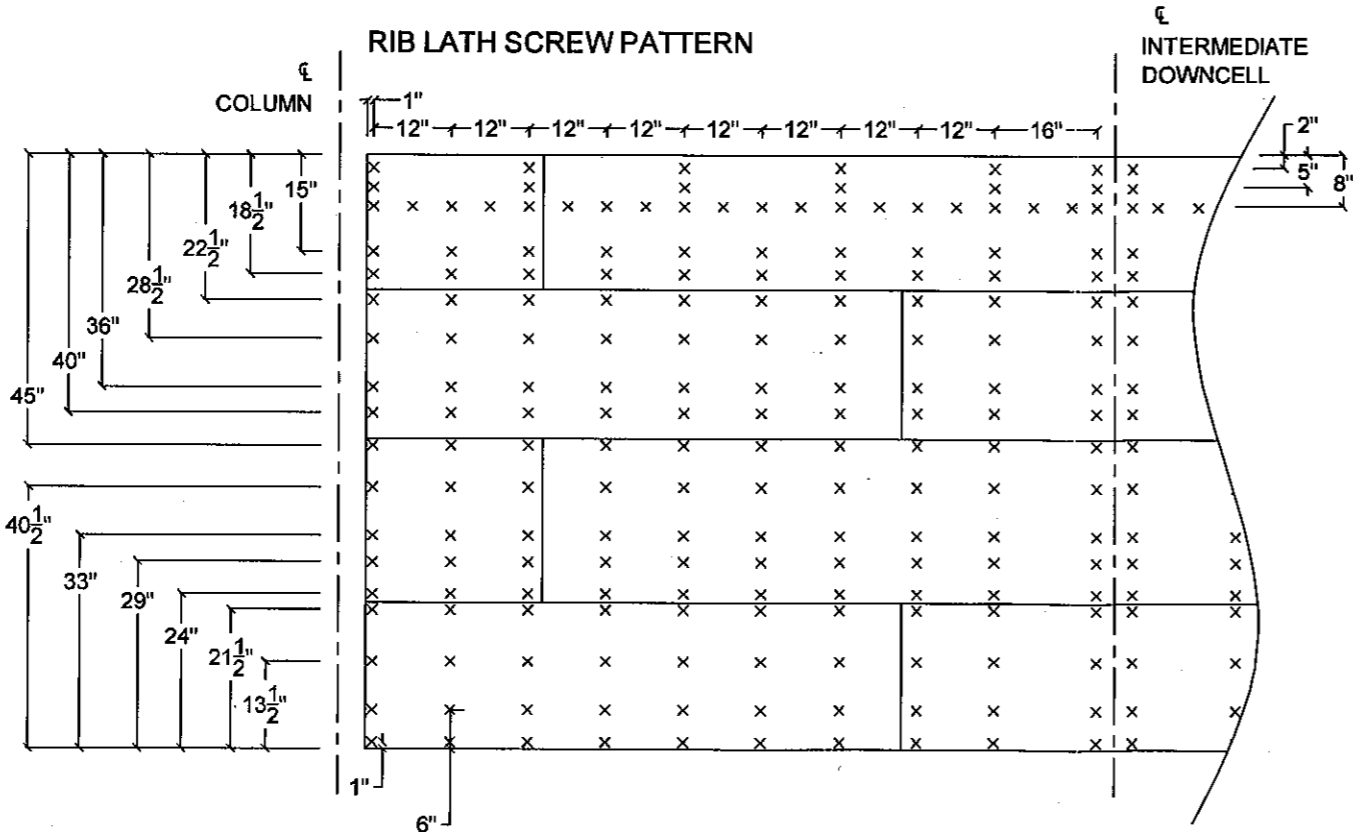
REV: 1

PREPARED BY: Lite Tech LLC
610 Hermits Tr
Altamonte Springs, FL 32701
321-231-6917

SCREW PATTERN PLAN



- X - SCREWS: BOM #16
CORRUGATED STEEL IS SCREWED 8" O/C TO EACH 6" METAL STUD.
- O - SCREWS: BOM #17
CORRUGATED STEEL IS SCREWED TO BOTTOM CRC BETWEEN EACH 6" STUD, 6" O/C AND 2' O/C TO TOP THREE CRC.
- # - SCREWS: BOM #16
LINTLE PLATE IS SCREWED TO TOP OF STUDS USING (2) SCREWS



- X - SCREWS: BOM #18
SCREWED ACCORDING TO DIMENSIONS

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Miami Dade Product Control
By *Heather A. Maher*

NOTES:
1. SCREW PATTERNS SHOWN SHALL BE MIRRORED ON OPPOSITE SIDE OF INTERMEDIATE DOWNCELL TO ILLUSTRATE A FULL LENGTH WALL PANEL. THE WALL PANEL TESTED REPRESENTED THE WALL BETWEEN A COLUMN AND AN INTERMEDIATE DOWNCELL

PROJECT: Miami-Dade Approval

REV.	DESCRIPTION	DATE	BY

TITLE: TOTAL WALL SYSTEM (TWS)

DATE: 10/5/2011
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DRAWING NUMBER:

SHEET: 9 of 11

SCALE: N.T.S.

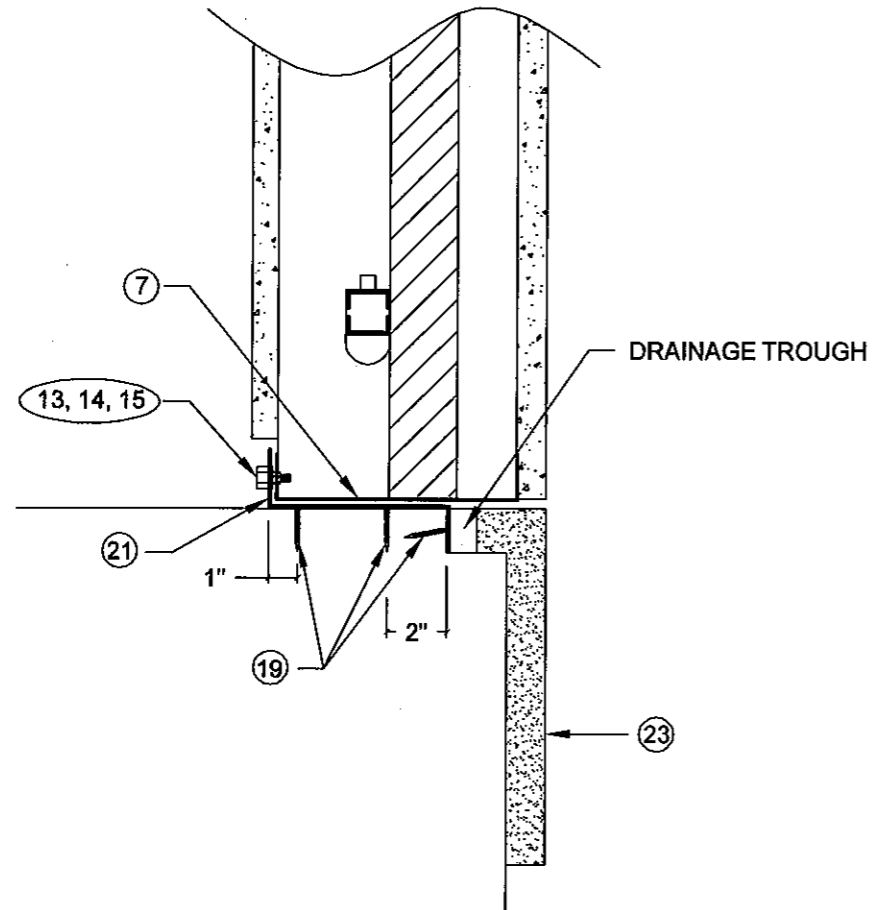
PREPARED BY: Lite Tech LLC
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Altamonte Springs, FL 32701
321-231-6917

APPROVED BY: *Heather A. Maher*

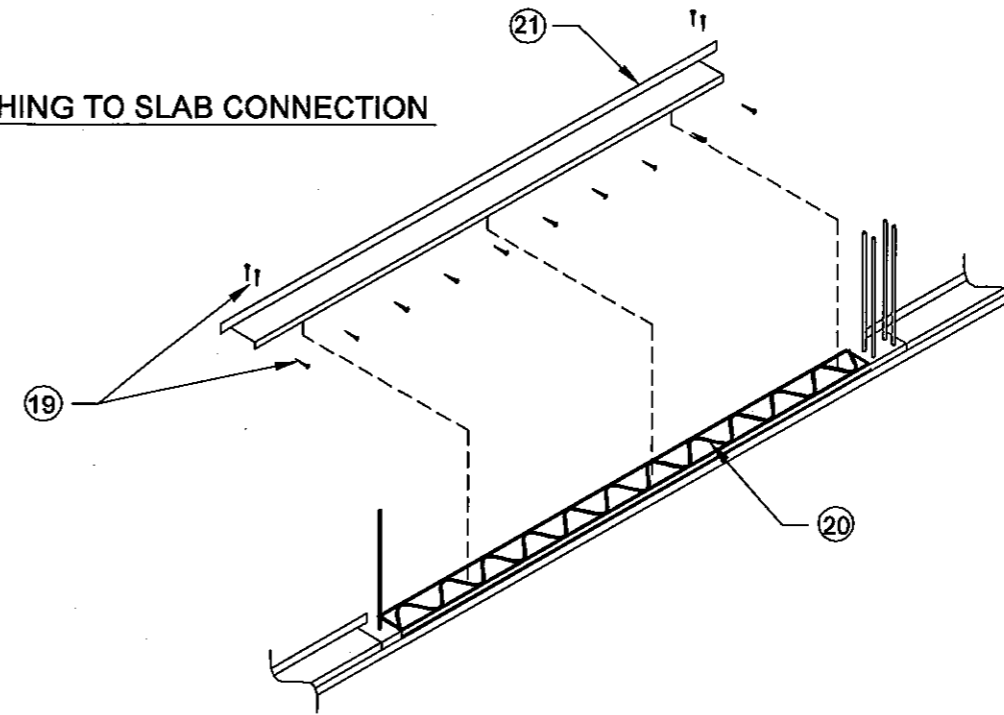
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PROFESSIONAL ENGINEER
Khanh Quoc Le
No 70935
STATE OF FLORIDA

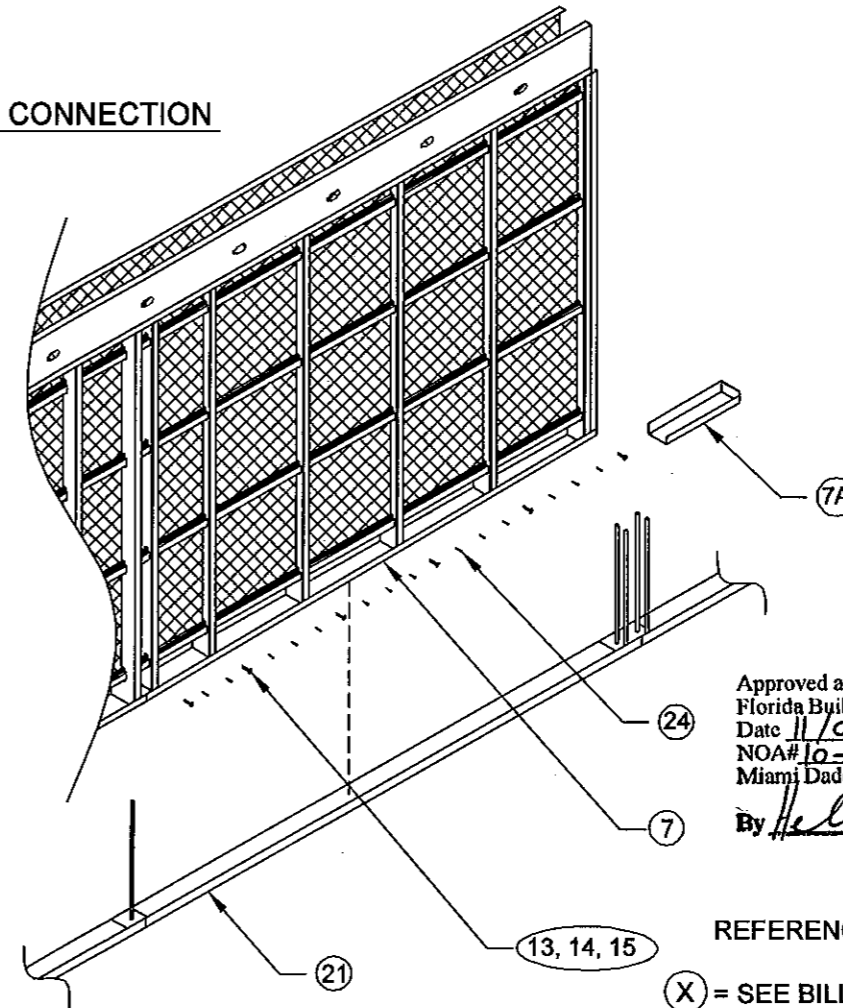
SLAB DETAIL



Z-FLASHING TO SLAB CONNECTION



WALL TO Z-FLASHING CONNECTION



INSTALLATION DETAILS:

1. SLAB IS POURED WITH A 2" W x 1 ½" D RECESSON AROUND PERIMETER
2. Z-FLASHING (BOM #21) IS ADHERED TO SLAB WITH LIQUID NAIL (1 OZ. PER FOOT) (BOM #20) AND SCREWED THROUGH THE HORIZONTAL FACE 2" FROM ENDS WITH (2) TAPCON SCREWS (BOM #19), AND 12" O.C. IN THE VERTICAL FACE OF THE Z-FLASHING (BOM #21).
3. STARTER BLOCK (BOM #23) IS ADHERED TO SLAB USING LIQUID NAIL (3 OZ. PER FOOT)
4. PANEL IS LOWERED INTO PLACE
5. BOTTOM 6" TRACK (BOM #7) OF PANEL OR OPTIONAL BRACKET (BOM # 7A) IS BOLTED (BOM 13,14,15) AND SCREWED (BOM #24) TO Z-FLASHING

Approved as complying with the
Florida Building Code
Date 11/03/2011
NOA# 10-0913-08
Miami Dade Product Control

By Henry A. Mott

REFERENCE:

(X) = SEE BILL OF MATERIALS
SHEET 1 OF 11

TITLE:

SUBJECT:
Miami-Dade Approval

TOTAL WALL SYSTEM (TWS)

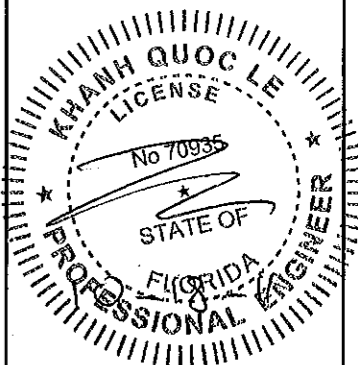
Lite Tech LLC
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32701
321-231-6917

DATE:	10/5/2011
DRAWN BY:	KDC

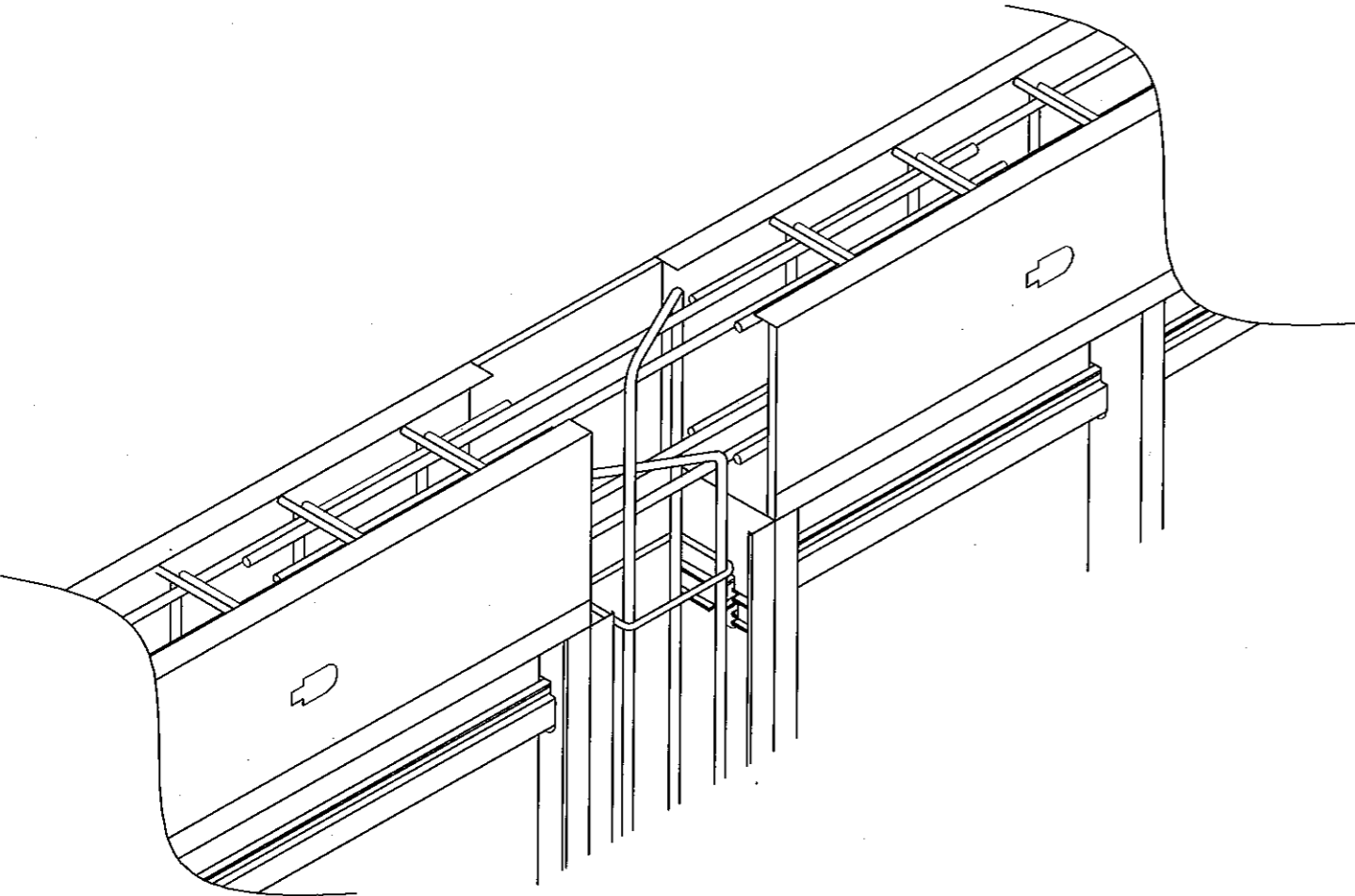
DRAWINGNUMBER: 10 of 11

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SCALE:	N.T.S.

PREPARED BY:



TIE BEAM DETAIL

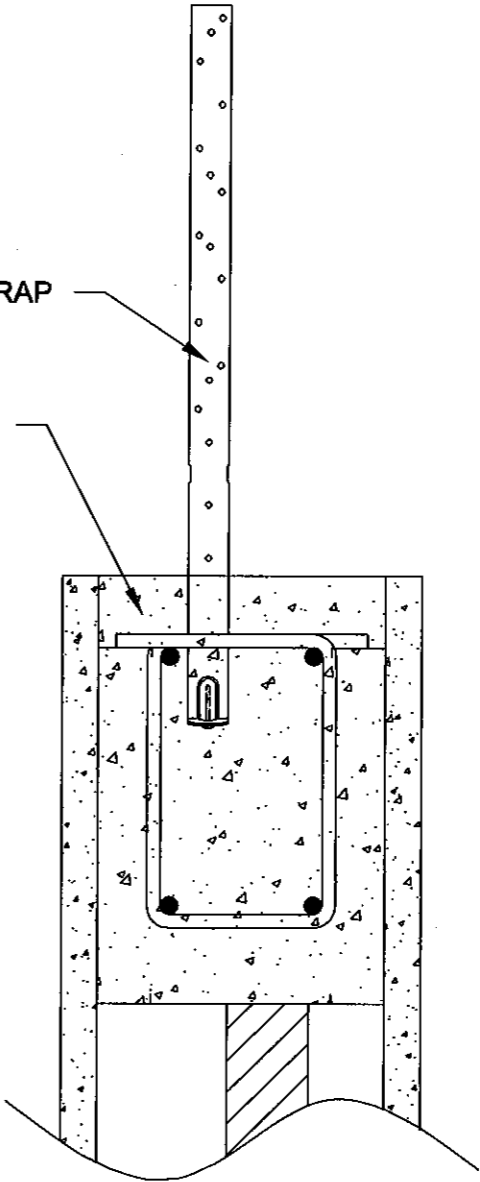


TIE BEAM INSTALLATION

- ONCE PANEL IS SECURED TO SLAB AND COLUMNS ARE SECURED WITH FORM BOARDS; LOWER STEEL TIE BEAM CAGES INTO TIE BEAM
- AT TOP OF EACH COLUMN, FEED (4) CONNECTING REBARS THROUGH COLUMN STEEL CAGE WITH A MIN. 25" LAP AS SHOWN
- INSTALL (1) #5 REBAR AT EACH INTERMEDIATE DOWNCELL LOCATION
- TIE HURRICANE STRAPS (HETA20) TO THE TIE BEAM STEEL
- PUMP OR POUR 3000 P.S.I. (28 DAYS) PEA GRAVEL MIX INTO EACH COLUMN, INTERMEDIATE DOWNCELL, AND TIE BEAM
- REMOVE FORM BOARDS ONCE CONCRETE HAS SET

HURRICANE STRAP
HETA20

3000 PUMP MIX



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Florida Building Code
Date 11/03/2011
NOA# 16-0913-08
Miami Dade Product Control

By *Helmy A. Maher*

TITLE:

TOTAL WALL SYSTEM
(TWS)

PREPARED BY:

Life Tech LLC
610 Hermitas Tr
Altamonte Springs, FL
32701
321-231-6917

REV:

DRAWING NUMBER:

DATE:

10/5/2011

SHEET:

11 of 11

DRAWN BY:

KDC

SCALE:

N.T.S.

PROJECT:

Miami-Dade Approval

REV.	DESCRIPTION	DATE	BY

Professional Engineer Seal: KHANH QUOC LI, LICENSE No 70935, STATE OF FLORIDA